

## Y7 Mathematics unit 3 (Coordinate Geometry)

English vocabulary needed:

Rectangular coordinate system  
Rectangular coordinate plane  
Coordinates  
Origin  
Coordinate axis, x-axis, y-axis  
ordered pair  $(x, y)$   
x-coordinate  
y-coordinate  
quadrant

Polar coordinates system  
Polar coordinates plane  
Polar Coordinates  
Pole  
Polar axis  
ordered pair  $(r, \theta)$   
Radius vector  $(r)$   
Vectorial angle  $(\theta)$

Names of different 2D shapes:

Triangle  
Rectangle  
Square  
Parallelogram  
Trapezium  
Kite  
Pentagon  
Hexagon  
Heptagon  
Octagon, etc

In the final assessment, students need to use the following to describe how they move from one position to another:

- **Creative verbs**: such as walk, run, swim, climb, dash, etc.
- **Distance traveled** (including units)
- **Direction** (north, south, east, west, northeast, northwest, southeast, and south west)
- **Landmarks** passed or arrived at

i.e. **Tiptoe** **5 steps** **east** **past** the sleeping bear in **the cave** so she doesn't wake up and see you.